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TRANSACTIONS.

THE Kansas Academy of Science met for its twenty-third annual session at Lawrence, on November 5th, 6th, and 7th, 1890. The following extracts were taken from the minutes of the Secretary:

A business meeting was held at the Eldridge House, and the usual committees were appointed.

The other meetings were held in Snow Hall, at the State University. In accordance with a notice previously given, the amendment to section third of the Constitution was taken up, and it was unanimously voted that the annual fee of members be changed from two dollars to one dollar.

The following by-law, to be known as No. 11, was adopted: "Any section of these by-laws may be altered or amended by a two-thirds vote of members present." It was voted that by-law No. 6, in reference to the setting aside of one-fourth of the income of the Academy for the increase of the library, be stricken out. By-law No. 7, referring to the duties of the Librarian, was amended by striking out the word "sale." The reports of the Librarian and the Curator were made, and accepted. The report of the Treasurer, I. D. Graham, after being approved by the Auditing Committee, was accepted.

Bills to the amount of thirty-nine dollars and seven cents (\$39.07), were allowed.

On Wednesday evening the address of the retiring President, Prof. G. H. Failyer, was given.

Thursday evening was devoted to a reception to visiting members, tendered by the University Science Club and citizens of Lawrence.

On Friday evening there was given an exhibition of lantern and microscopic slides.

During the meeting thirty-eight papers were read, and a number of others were read by title. There were twenty new members elected. The annual election of officers resulted in the following choice:

President—Robert Hay, Junction City.

First Vice-President—F. W. Cragin, Topeka.

Second Vice-President—O. C. Charlton, Ottawa.

Secretary—E. H. S. Bailey, Lawrence.

Treasurer—F. O. Marvin, Lawrence.

Librarian—B. B. Smyth, Topeka.

Curators—A. H. Thompson, Topeka; E. A. Popenoe, Manhattan; N. S. Goss, Topeka.

It was voted to hold the next meeting in the fall of 1891, at Ottawa.

On the following pages will be found papers read at this meeting.